



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx EPS 20.0004X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2020-02-18)

Status: **Current** Issue No: 1

Date of Issue: 2020-11-20

Applicant: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Equipment: **Optical Beacon Type 6161/-...-...-1**

Optional accessory:

Type of Protection: **db, eb, tb, op is**

Marking: **6161/2:** Ex db eb IIC T6 Gb (Ta ≤ 40 °C)
Ex db eb IIC T5 Gb (Ta ≤ 50 °C)
Ex tb IIIC T85°C Db (Ta ≤ 40 °C)
Ex tb IIIC T100°C Db (Ta ≤ 50 °C)

6161/3: Ex db eb op is IIC T6 Gb (Ta ≤ 40 °C)
Ex db eb op is IIC T6 Gb (Ta ≤ 50 °C)
Ex tb op is IIIC T65°C Db (Ta ≤ 40 °C)
Ex tb op is IIIC T75°C Db (Ta ≤ 50 °C)

6161/8-.7 and 6161/8-.8: Ex db eb IIC T6 Gb (Ta ≤ 60 °C)
Ex tb IIIC T85°C Db (Ta ≤ 60 °C)

Approved for issue on behalf of the IECEx
Certification Body:

H. Schaffer

Position:

Certification Manager

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Additional manufacturing locations: **R. STAHL Schaltgeräte GmbH**
Nordstraße 10
99427 Weimar
Germany

R. STAHL (P) LTD
Plot No. 5, Malrosapuram Road
Sengundram Indl Area
Singaperumal Koil
Kancheepuram Dt., Tamil Nadu 603 204
India

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/EPS/ExTR20.0004/01](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/16](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Ambient temperature range: $-40\text{ °C} \leq T_a \leq +40\text{ °C}$ or $-40\text{ °C} \leq T_a \leq +50\text{ °C}$ or $-40\text{ °C} \leq T_a \leq +60\text{ °C}$
Refer to marking section for temperature class rating in dependence on upper ambient temperature.

Type 6161/2:

Strobe signal light with polycarbonate lens for operation in all working positions. The apparatus includes the following components: lamp, printed circuit and junction block.

Rated voltage options for type 6161/2:

12 V to 48 V DC

24 V DC

24 V to 42 V AC (50/60 Hz)

60 V to 80 V DC or 42 V to 48 V AC

110 V to 127 V AC (50/60 Hz)

230 V AC (50/60 Hz)

Type 6161/3:

The type 6161/3 is identical to the type 6161/2 except that it includes the light unit with LEDs.

Rated voltage LED:

230 V AC (50/60 Hz)

24 V DC

24 V AC (50/60 Hz)

Type 6161/8-.7 and type 6161/8-.8:

The types 6161/8-.7 and 6161/8-.8 are identical to the type 6161/2 except that they can be connected respectively to a WLAN device or a Bluetooth device.

Rated voltage: 24 V DC

SPECIFIC CONDITIONS OF USE: YES as shown below:

When the optional guard is not installed, the apparatus shall be submitted to low risk of mechanical impact only.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Addition of 6161/3 voltage variant